# **NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PER.\_\_\_\_\_\_\_**

## **5.1, 5.2, & 5.4 TEST REVIEW**

**5 points added to your test, if complete!**

### PART 1. IMPORTANT GEOMETRIC TERMS

**Write a thorough definition and draw a picture for each of the following geometric terms.**

|  |  |
| --- | --- |
| 1. Triangle
 |  |
| 1. Scalene Triangle
 |  |
| 1. Isosceles Triangle
 |  |
| 1. Equilateral Triangle
 |  |
| 1. Acute Triangle
 |  |
| 1. Obtuse Triangle
 |  |
| 1. Right Triangle
 |  |
| 1. Equiangular Triangle
 |  |

PART 2. TRIANGLE BASICS

**The measures of two angles of a triangle are given. Find the measure of the third angle, then classify the triangle by *ANGLES*.**

|  |  |
| --- | --- |
| 1. Third Angle = \_\_\_\_\_\_\_\_\_\_\_\_

Classification:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | ,  |
| 1. Third Angle = \_\_\_\_\_\_\_\_\_\_\_\_

 Classification:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | ,  |
| 1. Third Angle = \_\_\_\_\_\_\_\_\_\_\_\_

  Classification:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | ,  |

PART 3. ANGLES OF TRIANGLES

**Find the specified value(s).**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_­­\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ |  |

**PART 4. CONGRUENT TRIANGLES**

**Given each set of congruent triangles, complete each of the following.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ |  |

|  |
| --- |
| 1. If , , and , find the following.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. If , , and , find the following.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Determine whether each statement is true or false. Circle one.**

|  |  |
| --- | --- |
| 1. TRUE or FALSE
 | If , then . |
| 1. TRUE or FALSE
 | If , then . |
| 1. TRUE or FALSE
 | If , then . |

PART 5. ISOSCELES AND EQUILATERAL TRIANGLES

Find the following.

|  |
| --- |
| 1. Find ‘’:
 |
| 1. Find ‘’:
 |
| 1. Find ‘’:
 |
| 1. Find ‘’:
 |

PART 6. REVIEW

**For each of the following pairs of angles, tell what type of pair they are, and tell whether each pair is congruent or supplementary.**

1

2

3

4

5

6

7

8

|  |  |  |
| --- | --- | --- |
| ANGLE PAIR | TYPE | or SUPPLEMENTS |
| 1. and
 |  |  |
| 1. and
 |  |  |
| 1. and
 |  |  |
| 1. and
 |  |  |
| 1. and
 |  |  |

|  |
| --- |
| 1. Find the value of ‘’.
 |
| 1. If and , find .
 |
| 1. Find the midpoint of described in #33.
 |

**A Mishmash of Answers:**

A triangle with at least two sides congruent.

A figure with three sides and three angles.

A triangle with no two sides congruent.

A triangle with all sides congruent.

A triangle in which all of the angles are acute.

A triangle with an obtuse angle.

A triangle with a right angle.

A triangle with all angles congruent.

obtuse

False

right

False

Corresponding, Congruent

S. S. Ext., Supp.

S. S. Int., Supp.

Alt. Int., Congruent

Alt. Ext., Congruent

True

acute